

Fig. 1

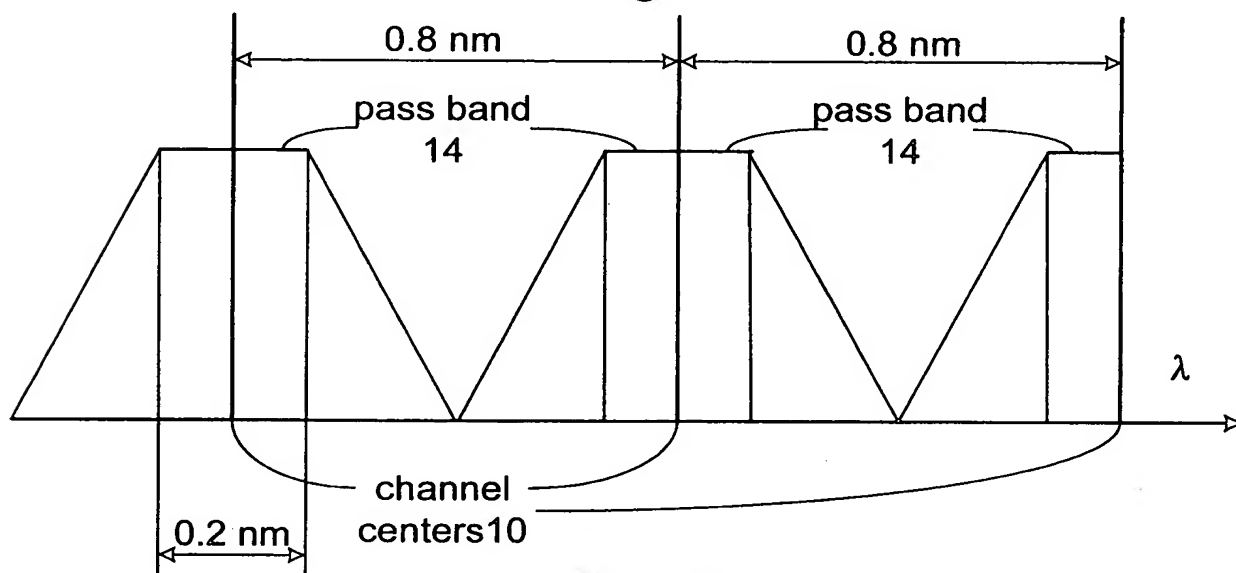


Fig. 2

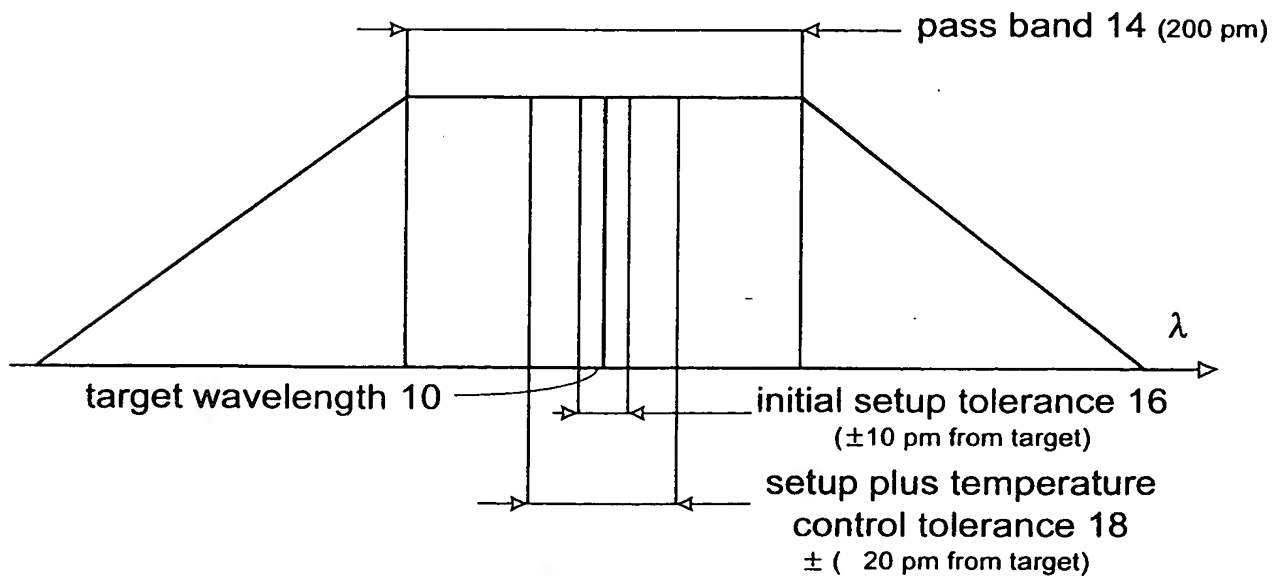


Fig. 3

Title: TIME-BASED ADJUSTMENT OF TEMPERATURE
CONTROL OF LASER TO STABILIZE WAVELENGTHS

Inventors: James Stewart, Stephen G. Hosking

Docket No.: 15436.253.88.2

2 / 13

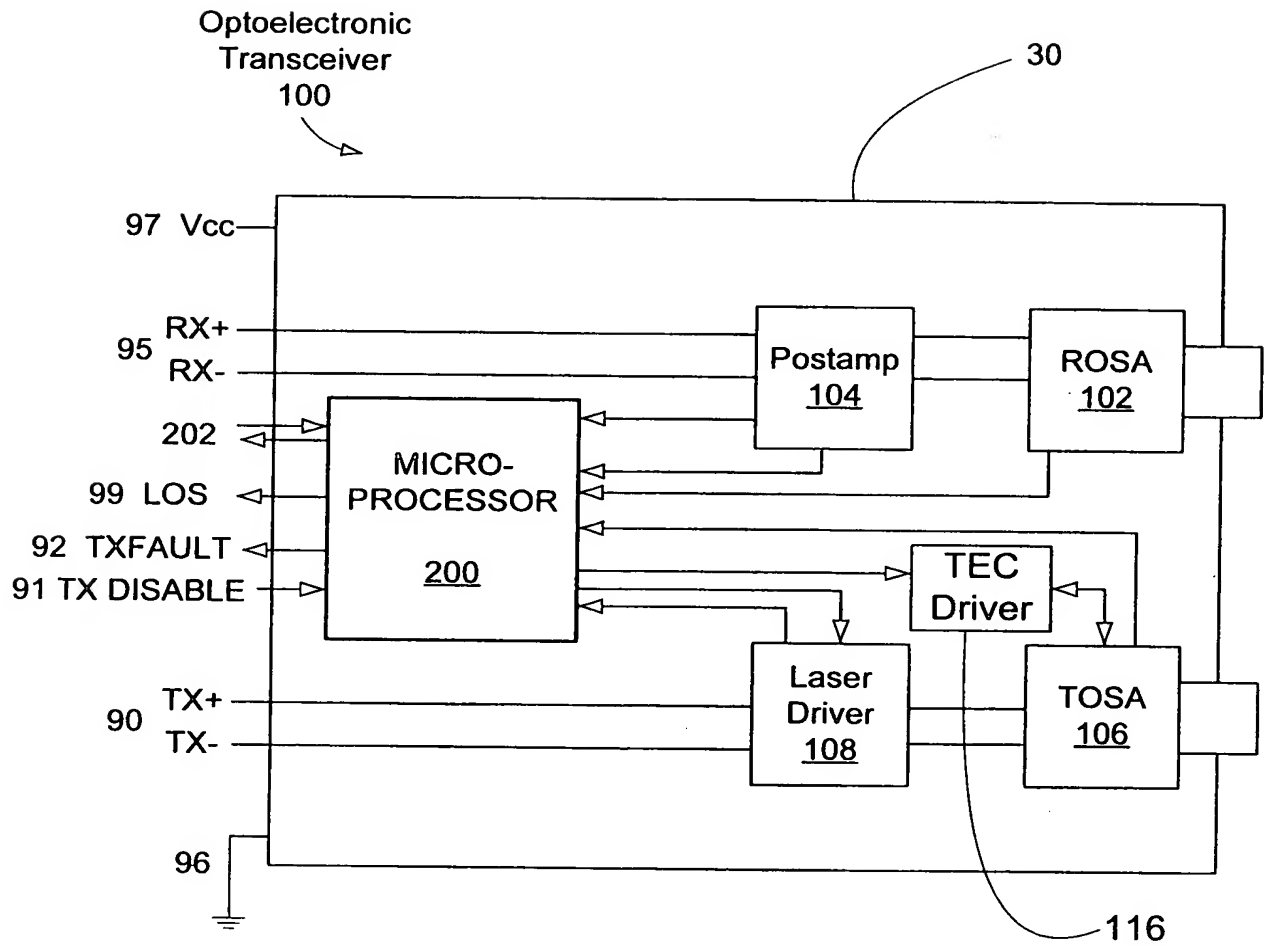


Fig. 4

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3/13

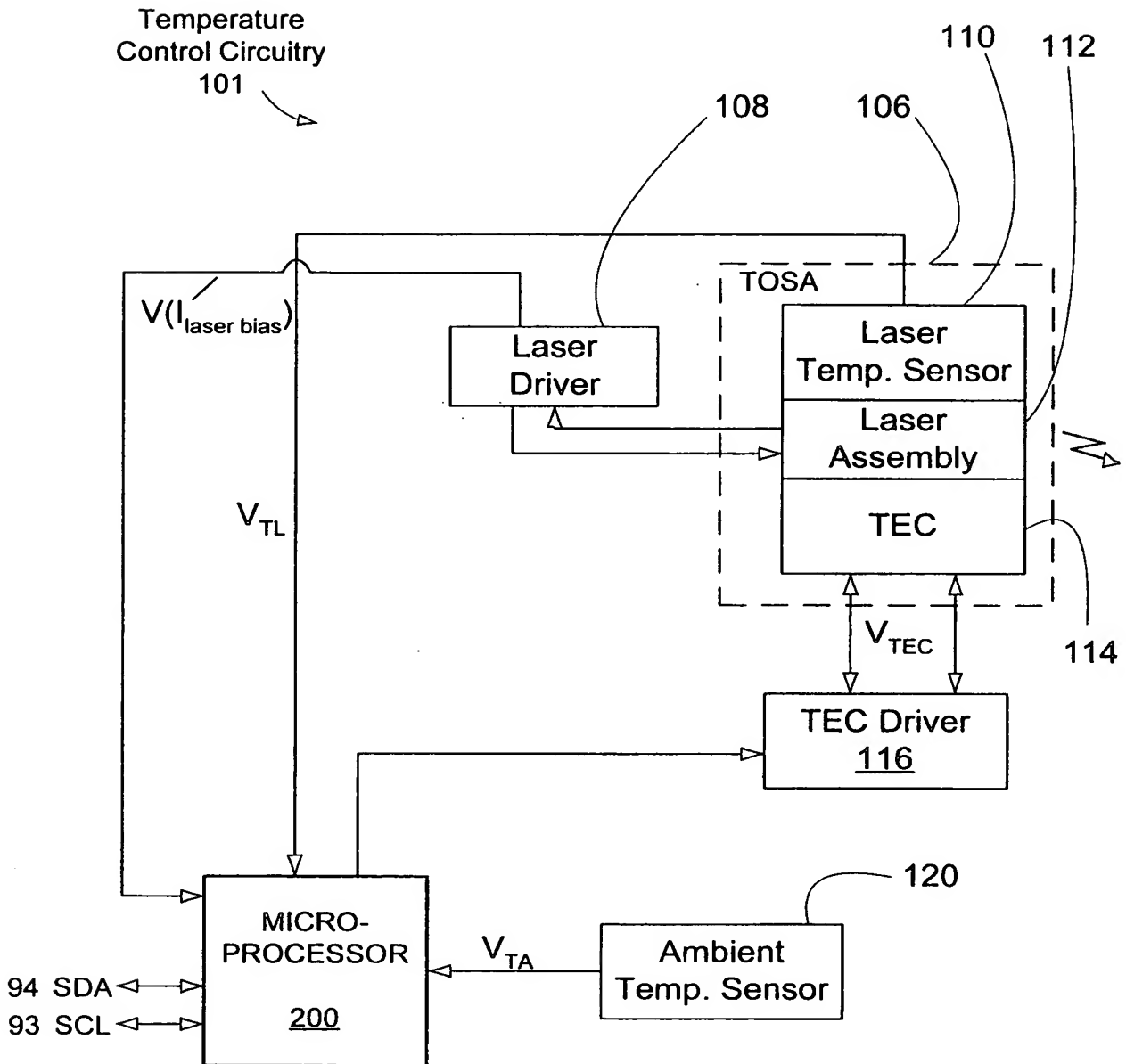


Fig. 5

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4 / 13

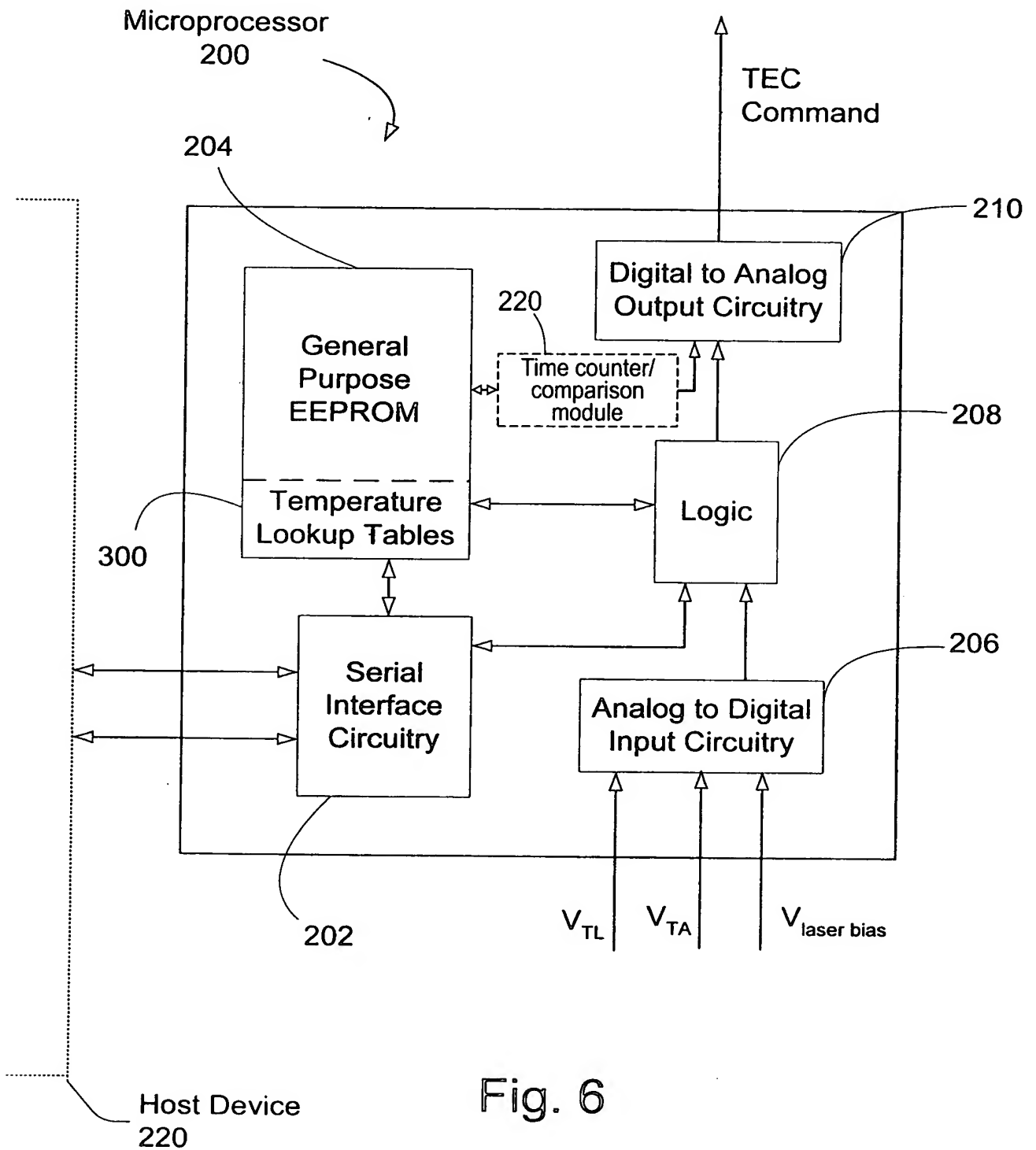


Fig. 6

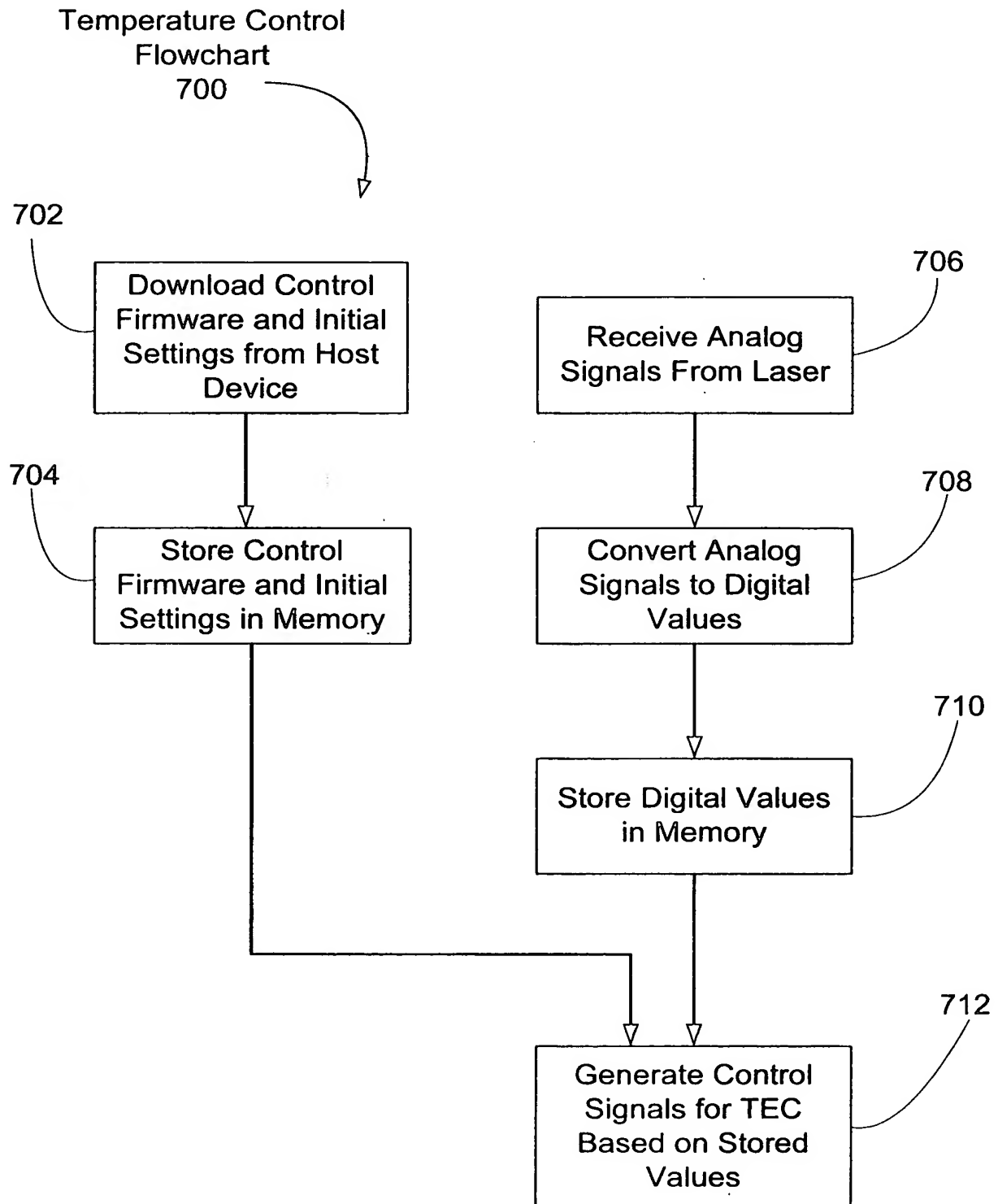


Fig. 7

Setup and Tuning
System

800

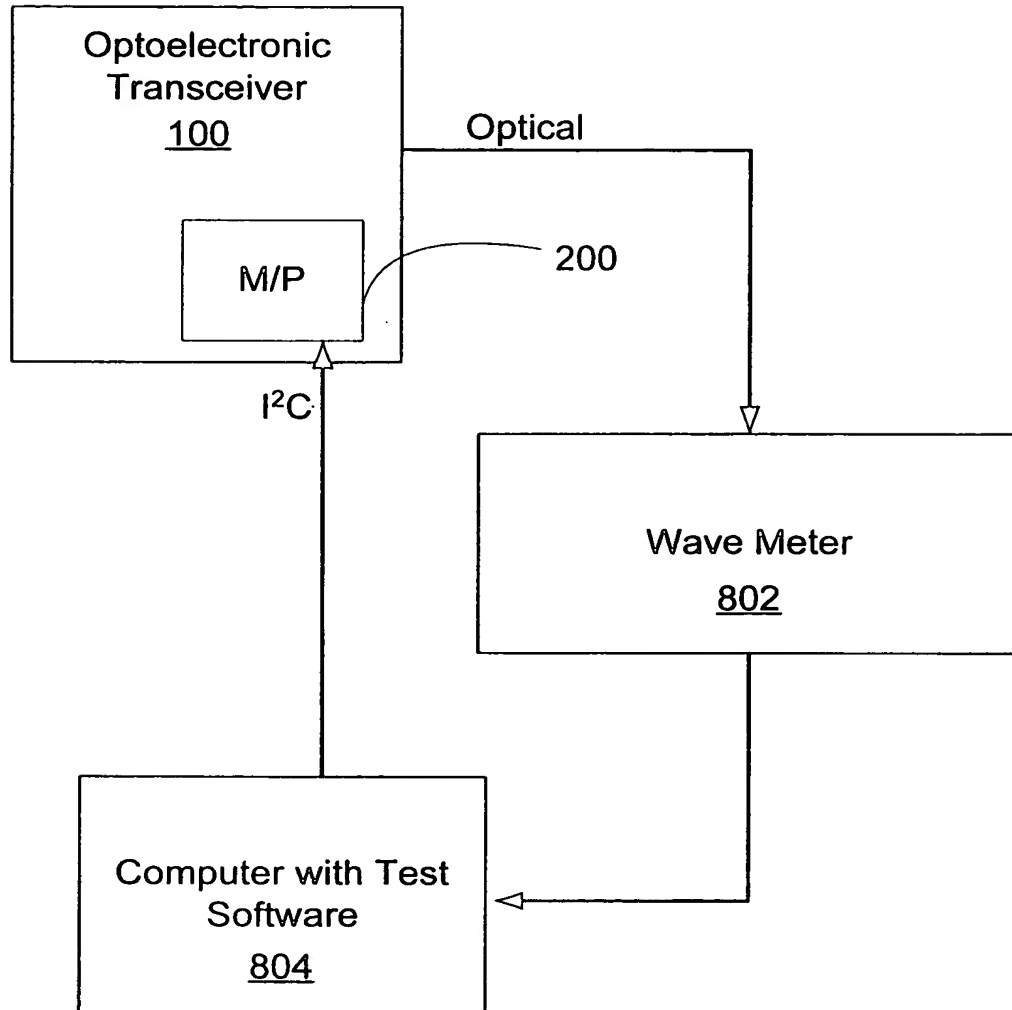


Fig. 8

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Docket No.: 15436.253.88.2

7 / 13

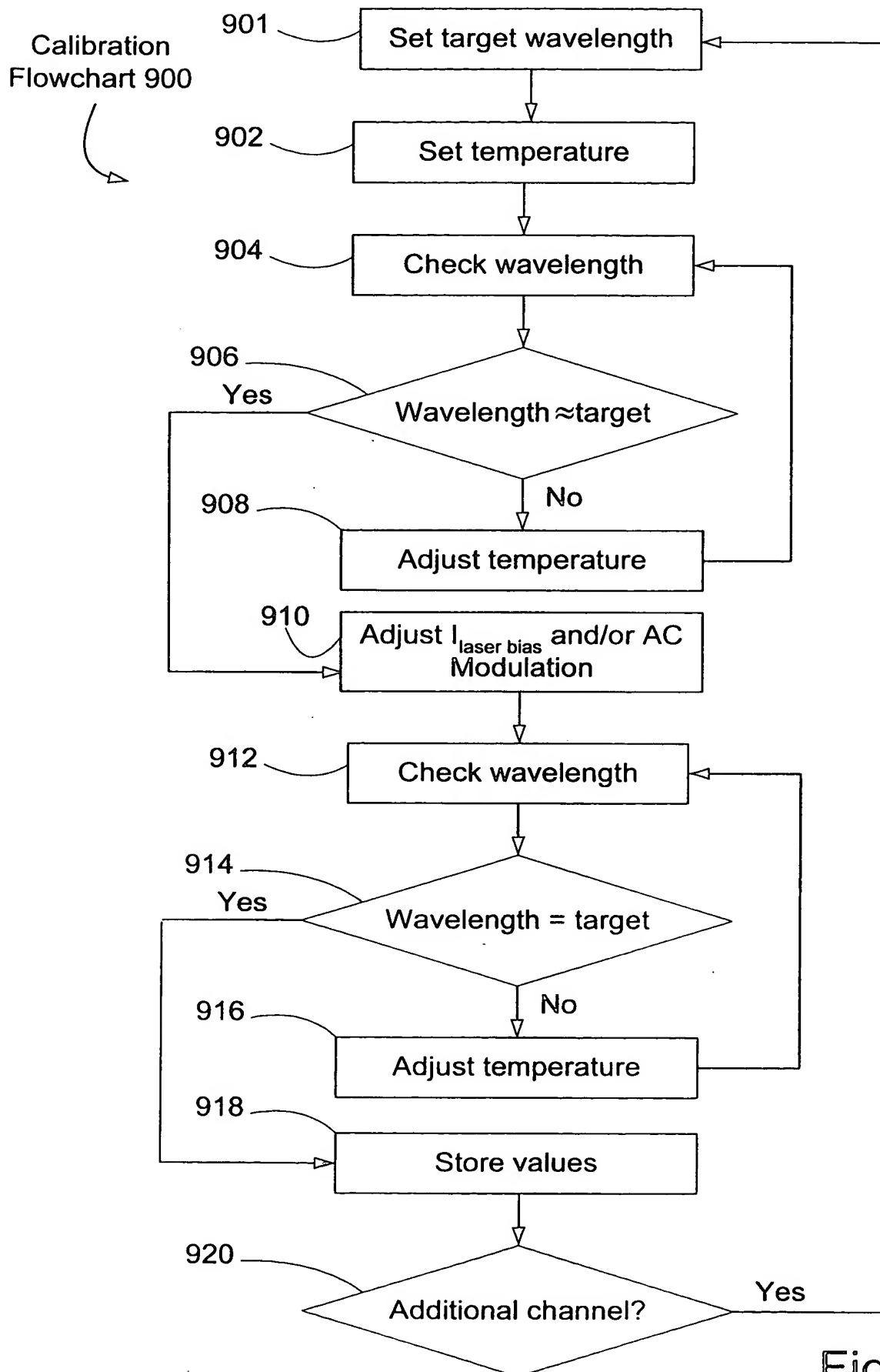


Fig. 9

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Docket No.: 15436.253.88.2

8 / 13

Channel Lookup
Table
1000



channel	temperature	$I_{\text{laser bias}}$	AC modulation
1	43 C	0.5 A	1.5
2	34 C	0.55 A	1.1
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.

Fig. 10

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Docket No.: 15436.253.88.2

9 / 13

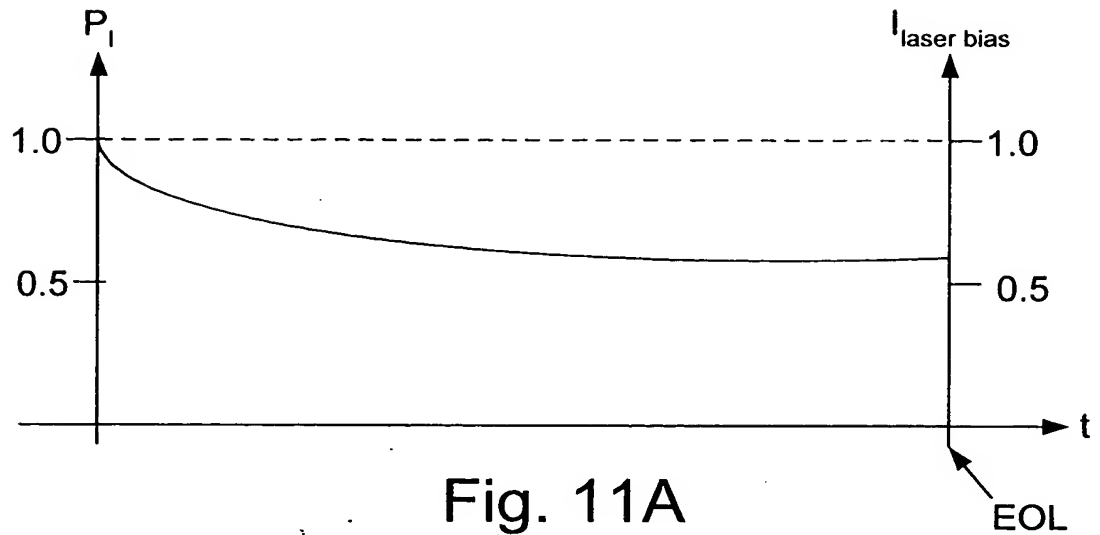


Fig. 11A

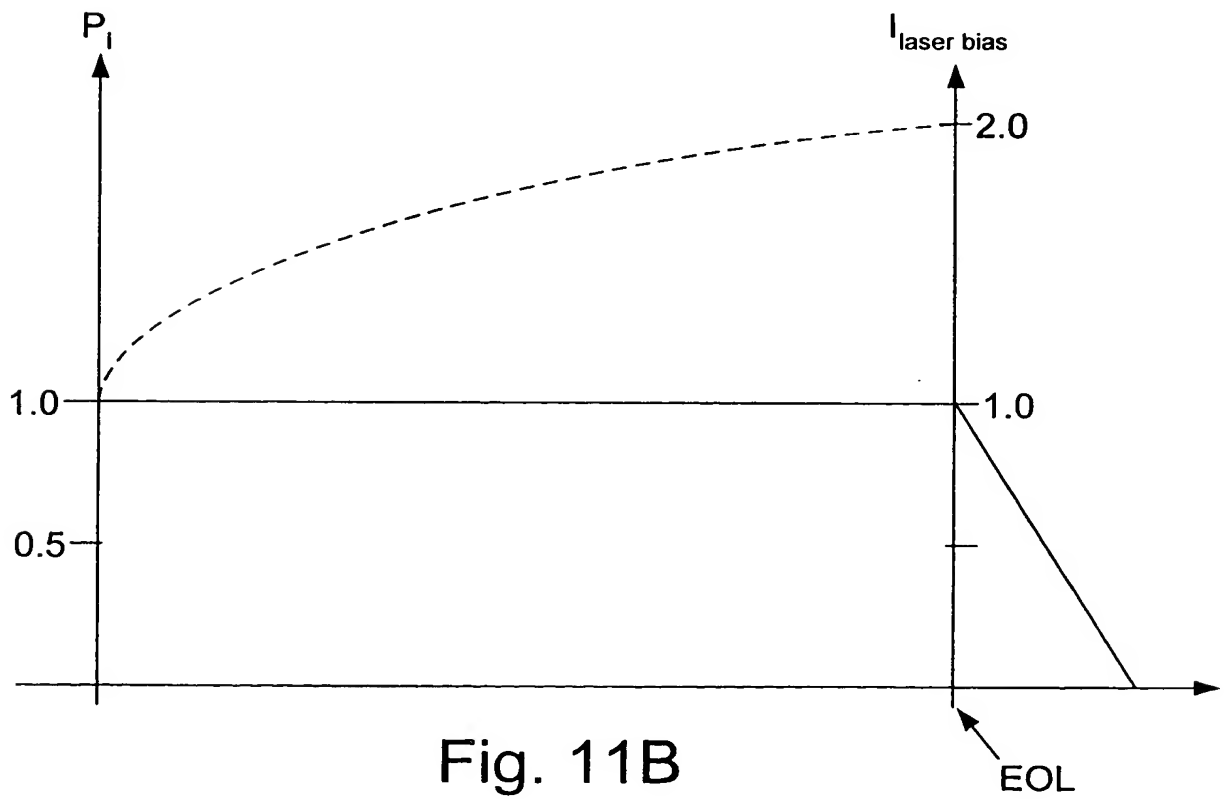


Fig. 11B

Title: TIME-BASED ADJUSTMENT OF TEMPERATURE
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Docket No.: 15436.253.88.2

10 / 13

Wavelength drift lookup table 1200

time	temperature	I _{laser bias}
t ₁	43 C	0.5 A
t ₂	42 C	0.55 A
.	.	.
.	.	.
.	.	.
.	.	.
.	.	.

Fig. 12A

Wavelength drift lookup table 1210

channel	time	temperature	I _{laser bias}
1	t ₁	43 C	0.5 A
1	t ₂	42 C	0.55 A
.	.	.	.
.	.	.	.
.	.	.	.
2	t _a	41 C	0.5 A
2	t _b	40 C	0.55 A
.	.	.	.
.	.	.	.
.	.	.	.

Fig. 12B

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Docket No.: 15436.253.88.2

11 / 13

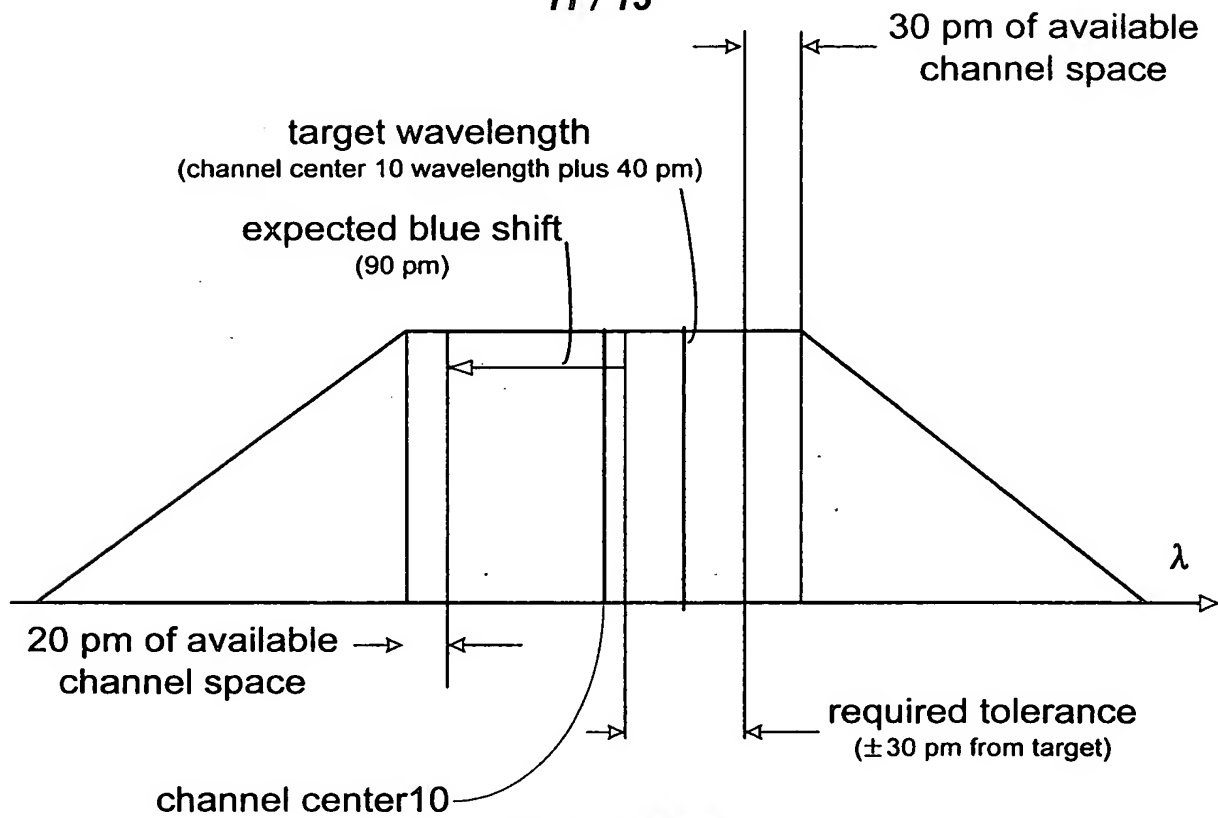


Fig. 13A

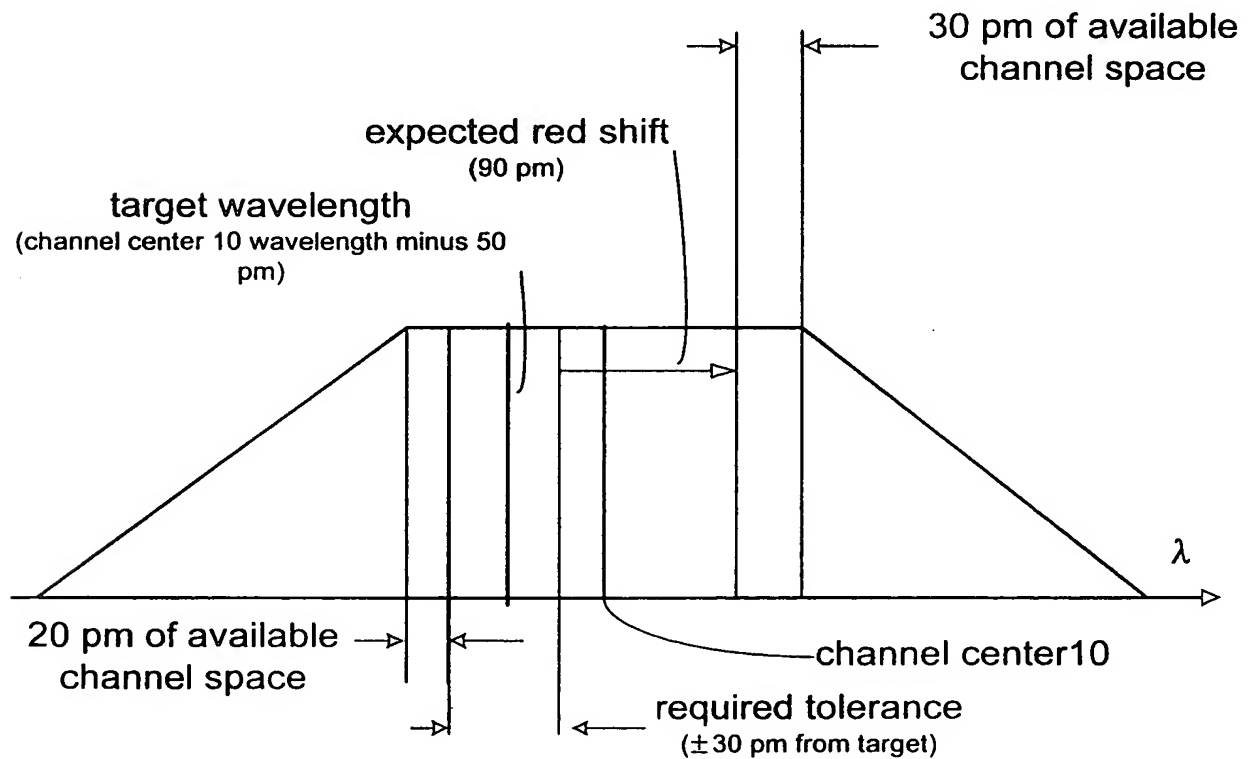


Fig. 13B

Title: TIME-BASED ADJUSTMENT OF TEMPERATURE
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Docket No.: 15436.253.88.2

12 / 13

Temperature Control
Flowchart
1400

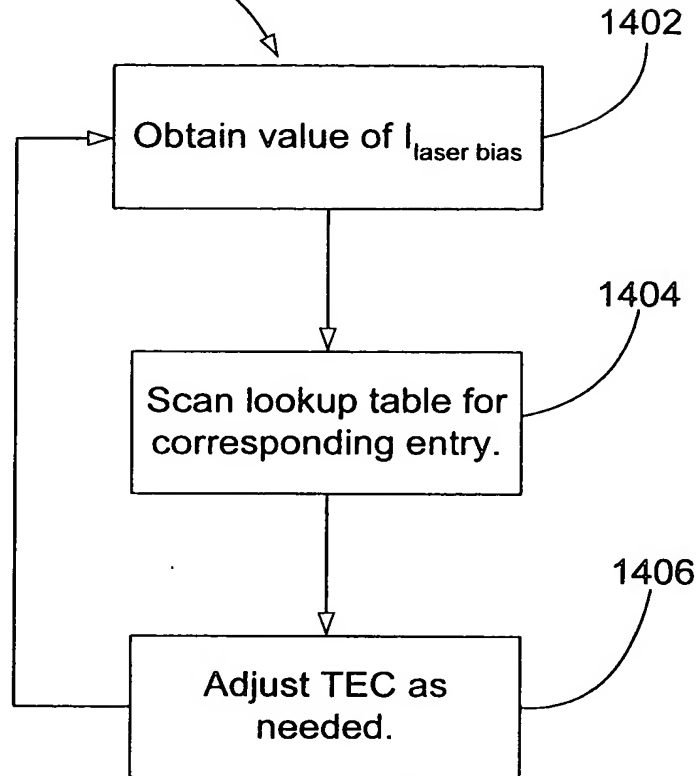


Fig. 14A

Temperature Control
Flowchart
1410

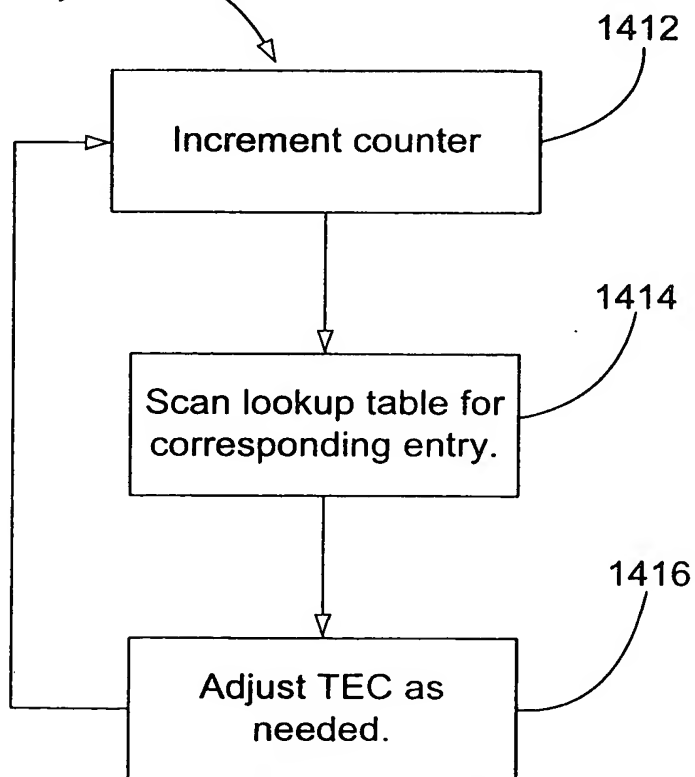


Fig. 14B

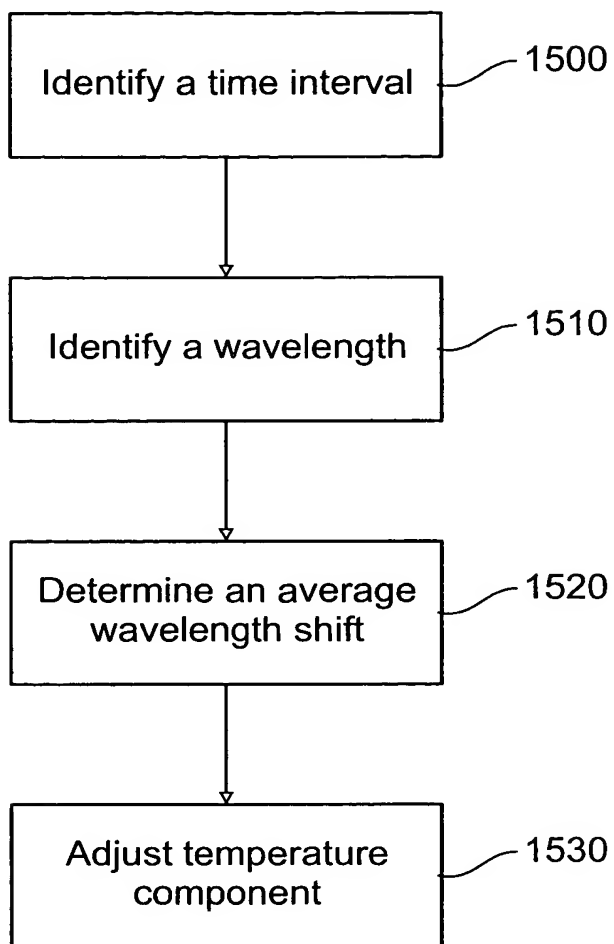


Fig. 15